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PROCUREMENT SECTION  
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# Cotton Fiber and Processing Test Results

CROP of

1972



Agricultural Marketing Service  
U.S. DEPARTMENT OF AGRICULTURE  
Memphis, Tenn. 38117 September 15, 1972

# COTTON FIBER AND PROCESSING TEST RESULTS, CROP OF 1972

## Discussion of Test Results

Cotton Division laboratories of the Agricultural Marketing Service report the average values for a limited number of short staple samples tested from Southwest Texas to date show about the same fiber strength as a year ago. Cottons are coarser and weaker at zero gage strength. Shirley Analyzer nonlint content is higher, as is picker and card waste than last year. Yarns spun from these samples have lower appearance grades and more imperfections.

Medium staple samples tested from the Southwest to date show about the same fiber length and uniformity as last year. Cottons are finer and weaker at zero gage strength. Picker and card waste is higher than last season at this time. Yarns spun from these samples have a slightly lower appearance grade and show more imperfections. Average spinning potential yarn number is higher than last season.

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This is the third of a series of reports of fiber and processing test results from the 1972 cotton crop. Subsequent reports in this series will follow at approximately two-week intervals during the harvesting season, and will be summarized in a comprehensive report at the end of the season. This series will present data on the same subject as "Summary of Cotton Fiber and Processing Test Results, Crop of 1971", April 1972. These reports are published by the Standardization Section, Cotton Division, Agricultural Marketing Service, U. S. Department of Agriculture, P. O. Box 17723, Memphis, TN 38117.



Table 1.--Cotton:

Averages of fiber and processing tests from selected gin points in the United States  
through September 8, 1972

Staple group Area, and Crop year	Lots tested	Fiber test results						Processing test results					
		Fibrograph		Mike fine- ness	Fiber strength		S A nonlint	P & C waste	Yarn quality		Spin. Potent.		
		2.5% span	50/2.5 unif.		Zero gage	1/8" gage			Skein str.	Appear- ance		Imperf- ections	
				Pct.			Mpsi	G/tex			Pct.		Lbs.
		Inches	Rdg.				Pct.	Pct.	22s	Carded	Yarn	Yarn No.	
Short Staple: Southwest: 1971 1972	2	0.93	46	4.4	79	20	2.7	5.7	88	120	26	42	
	2	0.94	45	4.6	77	20	3.4	6.8	86	110	36	44	
	17	1.06	46	4.6	87	22	3.0	5.5	103	123	19	59	
	19	1.06	46	4.4	84	22	3.0	6.1	104	119	23	63	
Medium Staple: Southwest: 1971 1972													
Significant dif- ference 2/													

1/ Based on a limited number of samples of modal quality

2/ Minimum differences considered to be significant for comparisons in this table. These guides are based upon averages of a number of lots and are not applicable to individual samples.

Table 2 --Cotton, American upland short staple: Quality characteristics by production areas, crop of 1972

Production Area, Classification &				Fiber Test Results										Processing Test Results - Carded Yarns									
Sample Number		Digital Fibrograph		Mike	Fiber Strength		Elon- gat'n 1/8"	S.A. Non- lint	Color Raw Stock		P & C Waste	Strength		Elongation		Appearance Index		Imprfct'ns		Spin. Poten- tial			
		2.5% span	Unif		Zero Gage	1/8" Gage			Gra	Yel		8s or 74 tx	22sor 27 tx	8s or 74 tx	22s or 27 tx	8s or 74 tx	22sor 27 tx	8s or 74 tx	22sor 27 tx				
No	Grade	Stple	32s	In	Pct	Rdg	Mpsi	G/tex	Pct	Pct	No	No	Lbs	Lbs	Pct	Pct	No	No	No	No			
	Name & Code																						

SOUTHWEST  
SOUTH TEXAS

TAFT

2	SLM	LT	SP	42	31	0.94	45	4.6	73	LANKART	611	95 PERCENT	83	7.5	6.5	120	100	60	40	42		
											20	7.3	3.7	4	4	7.1	281					

Table 3 --Cotton, American upland medium staple: Quality characteristics by production areas, crop of 1972

Production Area, Classification &				Fiber Test Results										Processing Test Results - Carded Yarns												
Sample Number		Digital Fibrograph		Mike		Fiber Strength		Elon-gat'n 1/8"		S.A. Non-Lint		Color Raw Stock		P & C Waste		Strength		Elongation		Appearance Index		Imprfct'ns		Spin. Poten-tial		
No	Grade	Stple	2.5% span	Unif.	Rdg	Mpsi	Zero Gage	1/8" Gage	Pct	Pct	Pct	Gra	Yel	Pct	Pct	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	27 tx	50s or 12 tx			
SOUTHWEST AREA																										
SOUTH TEXAS																										
ALAMO																										
2 SLM	41	34	1.04	47	5.1	82	STONEVILLE 213										94 PERCENT		37	6.3	5.2	120	100	15	11	61
3 LM	51	34	1.08	43	3.2	82	23	6.4	2.4	2	4	5.7	102	3	7.2	107	41	7.0	5.5	100	80	41	32	66		
AUSTWELL																										
1 SLM	41	33	1.04	46	5.0	92	STONEVILLE 213										90 PERCENT		35	5.9	4.7	120	100	22	20	57
2 SLM	41	34	1.08	48	4.8	82	22	5.3	2.8	2	3	6.2	103	2	5.9	105	40	6.3	5.4	120	100	21	14	64		
CORPUS CHRISTI																										
1 MID LT SP	32	32	1.03	47	5.2	83	STONEVILLE 7A										70 PERCENT		36	6.0	4.8	130	100	14	12	60
2 MID LT SP	32	32	1.02	46	5.3	84	23	6.0	1.7	2	4	5.3	98	2	5.3	98	34	5.9	4.7	130	100	14	13	56		
DANEVANG																										
3 SLM LT SP	42	34	1.09	46	4.6	84	DELTAPINE 16										90 PERCENT		42	6.4	5.2	120	100	22	18	72
HARLINGEN																										
3 LM LT SP	52	34	1.08	46	3.3	84	STONEVILLE 7A										95 PERCENT		40	6.4	5.4	110	80	40	31	61
CENTRAL TEXAS																										
BATESVILLE																										
2 SLM	41	34	1.09	46	4.3	82	STONEVILLE 213										85 PERCENT		42	6.9	5.5	120	100	26	20	65
NEEDVILLE																										
1 SLM	41	33	1.05	45	5.2	90	STONEVILLE 7A										100 PERCENT		31	5.2	3.9	130	100	22	14	57

